Philips
LCD widescreen monitor

19" wide
WXGA+

190CW9FB

SmartImage™
TrueVision
AUTO PICTURE
2ms
12,000:1
Dynamic
contrast ratio
USBConnectivity
TCO'06
ENERGY STAR
Works with Windows Vista®

Stylish wide display for home computainment

Pleasing to the eye, wide display: Stylish design and a host of smart features that elevate LCD viewing to new heights of picture perfect performance for every kind of content make 190CW9 your best computer entertainment choice.

Outstanding front of screen performance
- SmartImage: For an optimised display experience
- Fast response time up to 2 ms
- Dynamic contrast12000:1 for incredible rich black details
- TrueVision ensures top quality LCD display is delivered to you

Designed for elegance
- Glossy finish to enhance your decor

Green design
- Complies with TCO'06 safety and visual ergonomics standard

Great convenience
- Hassle-free display performance tuning with SmartControl II
- One-touch format switching between wide and 4:3 ratios
- USB port for convenient peripheral connections
- Cable management for a tidy work space

PHILIPS
sense and simplicity

LCD widescreen monitor
19" wide WXGA+

190CW9FB/05

Specifications

Picture/Display
- Panel Size: 19"/ 48.1 cm
- LCD panel type: 1440 x 900 pixels, Anti-glare polariser, RGB vertical stripe
- Optimum Resolution: 1440 x 900 @ 60 Hz
- Maximum Resolution: 1440 x 900 @ 75 Hz
- Display colours: 16.7 M
- Brightness: 300 cd/m²
- Aspect ratio: 16:10
- Contrast ratio (typical): 1000:1
- SmartContrast ratio (dynamic): 12000:1
- SmartResponse: 2 ms (Grey to Grey)
- Picture enhancement: SmartImage
- Response time (typical): 5 ms
- Effective viewing area: 410.4 x 256.5 mm
- Viewing angle: 176° (H)/170° (V), @ C/R > 5
- Horizontal Scanning Frequency: 30 - 83 kHz
- Vertical Scanning Frequency: 56 - 75 Hz
- Pixel pitch: 0.285 x 0.285 mm
- Video Dot Rate: 165 MHz
- sRGB

Connectivity
- Signal Input: VGA (Analogue)
- USB: USB 2.0 x 1
- Video Sync Input Signal: Composite Sync, Separate Sync, Sync on Green

Convenience
- User convenience: SmartControl II, Picture format selection, On-screen Display
- Monitor Controls: Auto (Back), Auto picture, Brightness Control, Input (Down), Menu (OK), Power On/Off, SmartImage
- OSD Languages: English, French, German, Italian, Russian, Simplified Chinese, Spanish, Portuguese
- Plug & Play Compatibility: DDC/CI, Mac OS X, sRGB, Windows 98, Windows 2000, Windows XP, Windows Vista
- Regulatory Approvals: CE Mark, Energy Star, FCC Class B, SEMKO, UL/cUL, TCO '06
- Tilt: -5° to 20°
- Other convenience: Kensington lock compatible

Dimensions
- Set dimensions with stand (W x H x D): 443 x 368 x 170 mm
- Set dimensions with stand in inch (W x H x D): 17.4 x 14.5 x 6.69 inch
- Relative humidity: 20% - 80%
- Set dimensions (W x H x D): 443 x 299 x 65 mm
- MTBF: 50,000 hrs
- Set dimensions in inch (W x H x D): 17.4 x 11.8 x 2.57 inch
- Temperature range (operation): 0°C to 40°C
- Temperature range (storage): -20°C to 60°C
- Box dimensions (W x H x D): 495 x 423 x 142 mm
- Box dimensions in inch (W x H x D): 19.5 x 16.7 x 5.59 inch
- Product weight (+stand): 4 kg
- Product weight (+stand) (lb): 8.82 lb
- Weight incl. Packaging: 5.5 kg
- Weight incl. Packaging (lb): 12.1

Power
- Consumption (On mode): < 36 W (typical)
- Consumption (economy mode): 28 W
- Consumption (Off Mode): < 0.8 W
- Complies with: Energy Star
- Power LED indicator: Operation - Blue, Stand by/ sleep-blue (blinking)
- Power supply: Built-in, 100-240 VAC, 50/60 Hz

Product highlights

SmartImage
SmartImage is an exclusive leading-edge Philips technology that analyses the content displayed on your screen. Based on a scenario you select, SmartImage dynamically enhances the contrast, colour saturation and sharpness of images and videos for ultimate display performance - all in real time and at the press of a single button.

2ms GtG response time
GtG response time is the average time that it takes for a pixel to go from one arbitrary position to another, which is the average time of transition between several sets of random colour levels. Faster is better: Lower response time means faster transitions and, therefore, results in fewer visible image artefacts in the display of fast moving images. GtG response time is an important way to measure display quality of multimedia content like movies, videos and games.

Dynamic contrast ratio 12000:1
You want the LCD flat display with the highest contrast and most vibrant images. Philips advanced video processing combined with unique extreme dimming and backlight-boosting technology results in vibrant images. Dynamic Contrast will increase the contrast with excellent black level and accurate rendition of dark shades and colours. It gives a bright, lifelike picture with high contrast and vibrant colours.

TrueVision
TrueVision is an industry leading, proprietary Philips testing and algorithm technology for the adjustment and fine-tuning of monitors, an extensive process that ensures ultimate display performance in compliance with a standard four-times more stringent than Microsoft's Vista requirements, for each monitor that leaves the factory - not just a few review samples. Only Philips goes to these lengths to deliver this exacting level of colour accuracy and display quality in every new monitor.

SmartControl II
SmartControl II is monitor-based software with an easy-to-use on-screen graphic interface that guides you through fine-tuning resolution, colour calibration and other display settings including brightness, contrast, clock & phase, position, RGB, white point and - on models with onboard speakers - volume adjustments.

Auto picture format button
Philips auto picture format is a button that switches from the 4:3 aspect ratio to the widescreen mode, and back again, to match the display's aspect ratio with your content for working with wide documents without scrolling or viewing widescreen media in the widescreen mode and distortion-free, native mode display of 4:3 ratio content.

Glossy finish
An attractive, elegantly finished glossy finish that fits in with and complements your decor.

TCO'06 compliance
TCO'06-compliant monitors meet ergonomic, environmental and health standards for multimedia displays created by TCO (the Swedish Confederation of Professional Employees); TCO'06, the most stringent ever, covers requirements for visual ergonomics in multimedia display, including health considerations as well as other features that characterise good quality displays. A TCO'06-compliant display's specifications must meet or exceed TCO'06 standards for visual ergonomics, emissions and energy conservation.

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